



NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY
SERGARH-756060, BALASORE (ODISHA)
(Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: Th-5 (ESTIMATION & COST EVALUATION-II)

Name Of The Faculty :- Er. Kumar Swatiranjan

Branch :- Civil Engineering

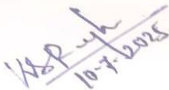
Academic Year :- 2025-26

Semester :- 5th


Examination :- 2025 (w)

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	Detailed estimate of culverts and bridges	12	15
2	Estimate of irrigation structures	14	16
3	Detailed estimate of roads	12	15
4	Detailed estimates of miscellaneous works	12	15
5	PWD accounts works	10	14
	Total Period:	60	75


10-7-2025

Sign of Faculty


10-7-2025

Sign of H.O.D.

Name of the programme: Diploma in CIVIL ENGINEERING	Semester: 3rd	Name of the Teaching Faculty: Er. Kumar Swatiranjan	
		Academic Year : 2025-26	Examination : 2025 (W)
Course Code: TH-5	Course Year: Third Year	No. of Classes Alloted Per Week :	5
		Planned Classes Required to Complete the Course	75
Week	Class Day	Topics to be Covered	
1st	1st	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	2nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	3rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	4th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	5th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
2nd	1st	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	2nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	3rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	
	4th	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
	5th	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
3rd	1st	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
	2nd	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
	3rd	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
	4th	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
	5th	1.2 RCC Hume pipe culvert with splayed angled wing wall.	
4th	1st	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification.	
	2nd	2.1 Detailed estimate of simple type of vertical fall to given specification.	
	3rd	2.1 Detailed estimate of simple type of vertical fall to given specification.	
	4th	2.1 Detailed estimate of simple type of vertical fall to given specification.	
	5th	2.1 Detailed estimate of simple type of vertical fall to given specification.	

5 th	1 st	2.1 Detailed estimate of simple type of vertical fall to given specification.
	2 nd	2.1 Detailed estimate of simple type of vertical fall to given specification.
	3 rd	2.1 Detailed estimate of simple type of vertical fall to given specification.
	4 th	2.1 Detailed estimate of simple type of vertical fall to given specification.
	5 th	2.1 Detailed estimate of simple type of vertical fall to given specification.
6 th	1 st	2.2 Detailed estimate of drainage siphon to given specification.
	2 nd	2.2 Detailed estimate of drainage siphon to given specification.
	3 rd	2.2 Detailed estimate of drainage siphon to given specification.
	4 th	2.2 Detailed estimate of drainage siphon to given specification.
	5 th	2.2 Detailed estimate of drainage siphon to given specification.
7 th	1 st	2.2 Detailed estimate of drainage siphon to given specification.
	2 nd	3.Detailed estimate of roads
	3 rd	3.1 Detail estimate of a water bound macadam road.
	4 th	3.1 Detail estimate of a water bound macadam road.
	5 th	3.1 Detail estimate of a water bound macadam road.
8 th	1 st	3.1 Detail estimate of a water bound macadam road.
	2 nd	3.1 Detail estimate of a water bound macadam road.
	3 rd	3.2 Detailed estimate of a flexible pavement in cutting / filling.
	4 th	3.2 Detailed estimate of a flexible pavement in cutting / filling.
	5 th	3.2 Detailed estimate of a flexible pavement in cutting / filling.
9 th	1 st	3.2 Detailed estimate of a flexible pavement in cutting / filling.
	2 nd	3.2 Detailed estimate of a flexible pavement in cutting / filling.
	3 rd	3.3 Detailed estimate of septic tank and soak pit for 50 users.
	4 th	3.3 Detailed estimate of septic tank and soak pit for 50 users.
	5 th	3.3 Detailed estimate of septic tank and soak pit for 50 users.
10 th	1 st	3.3 Detailed estimate of septic tank and soak pit for 50 users.
	2 nd	4.Detailed estimates of miscellaneous works
	3 rd	4.1 Tube well
	4 th	4.1 Tube well
	5 th	4.1 Tube well

11th	1st	4.1 Tube well
	2nd	4.1 Piles and Pile cap
	3rd	4.1 Piles and Pile cap
	4th	4.1 Piles and Pile cap
	5th	4.1 Piles and Pile cap
12th	1st	4.1 Piles and Pile cap
	2nd	4.1 Isolated and combined footings
	3rd	4.1 Isolated and combined footings
	4th	4.1 Isolated and combined footings
	5th	4.1 Isolated and combined footings
13th	1st	4.1 Isolated and combined footings
	2nd	5.PWD Accounts works 5.1 Works 5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair.
	3rd	5.1.2 Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement.
	4th	5.2 Accounts of works – 5.2.1 Explanation of various terms Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotations, earnest money.
	5th	5.2.1E-tendering, security deposit, advance payment, intermediate payment, final payment.
14th	1st	5.2.1Running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money).
	2nd	5.2.1 Supervision charges, suspense account, debit, credit, book transfer, voucher and related accounts .
	3rd	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity.
	4th	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity.
	5th	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages.

15 th	1 st	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages.
	2 nd	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission.
	3 rd	5.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stocks, shortage and excess.
	4 th	5.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stocks, shortage and excess.
	5 th	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.

Sign of Faculty

Sign of H.O.D.